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		ATTORNEY DOCKET NO.	CONFIRMATION NO.
26/2003	Chih-Ta Wu	252016-3000	9717
11/29/2005		EXAM	INER
THOMAS, KAYDEN, HOSTEMEYER & RISLEY LLP		SMITH, BRADLEY	
VAY		ARTUNIT	PAPER NUMBER
SUITE 1750 ATLANTA, GA 30339			
	11/29/2005 HOSTEMEYER VAY	11/29/2005 HOSTEMEYER & RISLEY LLP VAY	I 1/29/2005 EXAM HOSTEMEYER & RISLEY LLP VAY ART UNIT

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/672,778	WU ET AL.		
Office Action Summary	Examiner	Art Unit		
	Bradley K. Smith	2891		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 18 Oc	ctober 2005			
	2b)⊠ This action is non-final.			
, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.				
4a) Of the above claim(s) 3.4,6,8-14,17-19 and 22-24 is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6) Claim(s) <u>1,2,5,7,15,16,20 and 21</u> is/are rejecte	d.	- /		
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	r election requirement.			
Application Papers		÷		
9) The specification is objected to by the Examine	r.			
10)⊠ The drawing(s) filed on <u>26 September 2003</u> is/a		ed to by the Examiner.		
Applicant may not request that any objection to the		· _		
Replacement drawing sheet(s) including the correcti				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents	s have been received in Application	on No		
3. Copies of the certified copies of the prior	ity documents have been receive	d in this National Stage		
application from the International Bureau	ı (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list	of the certified copies not receive	d.		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview Summary			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/26/03.	6) Other: <u>search notes</u> .	alent Application (FTO-192)		

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DETAILED ACTION

Election/Restrictions

Applicant's election of species II in the reply filed on 10/18/05 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 7, 15, 16, 20 and 21 rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. Chen et al. disclose positioning a substrate within an atomic layer deposition chamber; flowing a first reactant gas into the atomic layer deposition chamber such that the first reactant gas is adsorbed onto the substrate; flowing an inert gas into the atomic layer deposition chamber to substantially purge the interior of the chamber and leave remaining a residual portion of the first reactant gas; and flowing a second reactant gas into the atomic layer deposition chamber, where the

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second reactant gas reacts with both the first reactant gas adsorbed onto the substrate and the residual portion of the first reactant gas, thus forming a reacted material layer upon the substrate (column 2 lines 60-67 and column 15). With regards to claim 2, Chen discloses using a second purge. With regards to claims 5,15, and 21 Chen disclose providing a substrate; forming over the substrate a microelectronic layer while employing a deposition method which employs a separately pulsed introduction of a minimum of two reactant materials introduced into a reactor chamber maintained at a pressure of greater than about 500 mtorr (columns 15 and 16). With regards to claims 7, 16, and 21 Chen disclose first reactant gas, a second reactant gas and a pulsed purge gas.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is 571-272-1884. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bradley K Smith Primary Examiner Art Unit 2891